

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0
4=Extreme		
3=High	- FIRE	1
2=Moderate		
1=Slight	- REACTIVITY	0
0=Insignificant		
	- SPECIFIC HAZARD	NONE



MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
 ADDRESS: 7910 Manchester Ave.
 St. Louis, Mo. 63143
 United States of America

CONTACT: Terry Heller
 EMERGENCY PHONE NO: 314-781-2105
 APPROVED BY: Terry Heller
 TITLE: Manager, Materials R/D
 DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: CK448A GEAR OIL

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES. CLASSIFICATION: PETROLEUM OIL N.O.S.
 D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: UN 1270.

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt. %	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
MINERAL OIL	REFINED MINERAL OIL	NAIF	> 95	5 (mist)	5 (mist)	N
LARD OIL	OILS, LARD	8016-28-2	< 5	NOT ESTABLISHED	NOT ESTABLISHED	N

NAIF=No applicable information found

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-----.904
 PERCENT VOLATILE BY WEIGHT-----<1%
 BOILING POINT----->600 F (316 C)
 VAPOR PRESSURE (mm Hg)-----<.1mm Hg @ 77 F (25 C)
 VAPOR DENSITY (AIR=1)-----HEAVIER THAN AIR
 EVAPORATION RATE-----NEGLECTIBLE
 SOLUBILITY IN WATER-----NEGLECTIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
 REACTIVITY IN WATER-----NO HAZARDOUS REACTIONS
 APPEARANCE AND ODOR-----DARK GREEN LIQUID.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
 POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
 INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS.
 HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE FROM COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION.
 ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

ACUTE: Contact with material may cause eye or skin irritation of sensitive individuals.
 ORAL TOXICITY (RATS): LD50>15 gm/kg nontoxic (estimated).--Based on testing of similar products and/or the components.
 DERMAL TOXICITY (RABBITS): LD50>5 gm/kg nontoxic (estimated).--Based on testing of similar products and/or the components.
 INHALATION TOXICITY (RATS): No applicable information found.
 EYE IRRITATION (RABBITS): Expected to be non-irritating.--Based on testing of similar products and/or the components.
 SKIN IRRITATION (RABBITS): Expected to be non-irritating.--Based on testing of similar products and/or the components.

CHRONIC: Prolonged or repeated skin contact may cause dermatitis (skin irritation).

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention.
 EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. SKIN CONTACT: Wash hands with mild non-abrasive soap and water.
 INGESTION: Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbent. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802).

WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.

VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
 OTHER: No applicable information found.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. Do not wear oil soaked clothing.

EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery.

OTHER EQUIPMENT: Oil-impervious apron if desired.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lubricating oils. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT-----565 F (296 C) ASTM D-92

FLAMMABLE LIMITS--- LEL: 0.6 UEL: 7.0

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers may explode if exposed to extreme heat.

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